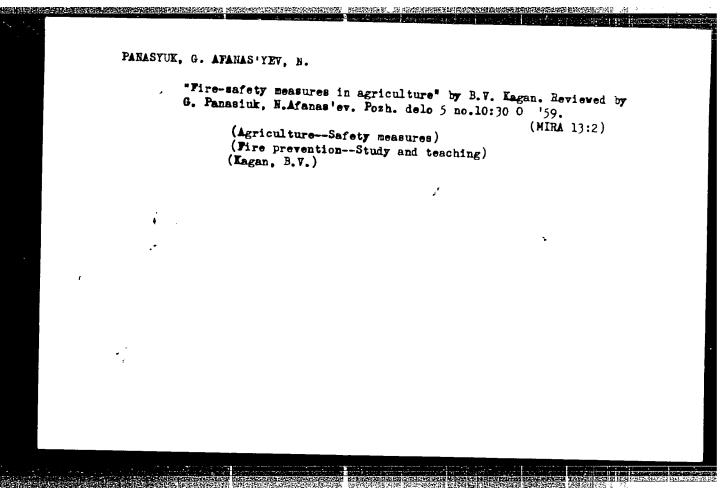
**在保护的经济和政治的处理的,但是在法院的政治的企业的实验,** 

PANASYUK, G. (Tashkent). Acquainting students with fire prevention measures. Politekt. (MIRA 11:6) obuch. no.6:91-92 Je 58.
(Fire prevention-Study and teaching)

CIA-RDP86-00513R001238920014-1" APPROVED FOR RELEASE: 06/15/2000



An uncent problem	m. Politekh. obuch. no.8:89 Ag	150
wu digate brooter	m. voliteru. obacu. no.o.c/ =6	(MIRA 12:10)
	zharnoy okhrany Ministerstva vr	atrennikh del UzSCR
Tashkent.	afety education)	

THE PARTY OF THE PROPERTY OF THE PARTY OF TH

CHMUTOV, K.V.; DANCHEVSKAYA, M.; PANASYUK, G.

Along the labyrinths of pores and capillaries. Tekh. mol. 31
no.3:5-6 '63.

1. Chlen-korrespondent AN SSSR (for Chamtov).

(Chromatographic analysis)

PANASYUK. S. P.

AUTHORS:

Poltorak, O.M., Panasyuk, G.P.

76-12-6/27

TITLE:

Mass Spectrometric Determination of the Heat of Sublimation of Real Crystals (Mass-spektrometricheskoye opredeleniye teplot sublimatsii real'nykh kristallov). I. Zinc (I. Tsink).

到1000年後到1990年的2000年的1990年的1990年的1990年(1990年)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1957, Vol. 31, Nr 12, pp.2644-2648 (USSR)

ABSTRACT:

Reference is made to the paper [Ref.1] of one of the authors (Poltorak) of the present work. There, a value of orientation for the decrease of the heat of sublimation with real crystals  $\triangle \land$  real = 10 000 - 15 000 cal/mol was obtained for the most active samples. This evaluation, however, was indirect there. Here it is tried to reexamine this assumption by means of a test. This is carried out by determining the heat of sublimation of the metals which was obtained under conditions analogous to that of the synthesis of metallic catalysts. The mass-spectroscopic method for the determination of vapor pressure was applied for the determination of the heat of sublimation. This method allows, in contrast with other methods, to investigate the properties of the crystalline surface layer at extraction of a minimum amount of material. This peculiarity is of decisive importance with the investigation of faceted samples which are not in equi-

Card 1/4

SEATER STORES DESCRIPTION OF THE STORES STOR

Mass Spectrometric Determination of the Heat of Sublimation of Real Crystals. I. Zinc.

76-12-6/27

librium. The present work was performed in connection with the investigation of the properties of metallic catalysts. The relatively easily volatile metal zinc, the heat of sublimation of which can be examined at sufficiently low temperatures and, moreover, according to various methods, was selected as object. The data for the catalytic properties of zinc, however, cannot be compared with the test data on physical properties of the crystals, since the catalytic activity in the case of zinc is usually correlated with the properties of the zinc oxide film which always covers the surface of the crystal. It is shown that the heat of sublimation with coarse-crystalline zinc which was obtained by distillation in vacuum, amounts to 30 000 cal/g-atom. This number agrees with the data from reference 2. This value was assumed here as  $\Lambda_{\infty}$  , whereas the value  $\Delta \widehat{\Lambda}_{\mathrm{real}}$  was determined, starting from  $\Delta \lambda$  real =  $\lambda_{\infty}$  -  $\lambda$  test. It is shown that with the most active zinc dust crystals, the decrease in the heat of sublimation attains the value of 10 000 - 15 000 cal/g-atom, in which case the obtaining of crystals with  $\triangle \lambda = 10\,000$  makes no special difficulties. It is shown that the processes taking place at an increase of temperature lead to a reduction of  $\Delta \lambda$ , since the conversion takes place in first line in that part of the system

Card 2/4

Mass Spectrometric: Determination of the Heat of Sublimation of Real Crystals. I. Zinc.

ALTERNATIVE DESCRIPTION SERVICES SERVICES EXPERIENCES PROPERTY AND PRO

76-12-6/27

containing the least stable structures. It is shown that the annealing of the samples below 250°C does not change the heat of sublimation, whereas already at 280°C the recrystallization takes place quickly and the \$\begin{align\*} \text{values approximate to the \$\begin{align\*} \infty\$. The cause for this phenomenon might be in the recrystallization of the zinc oxide covering the zinc crystals at approximately 250°C (according to the data of electromographic investigations, \left[Ref. 4]\right). With deeper temperatures, the ZnO-layer is compact and shows the lattice structure of metallic zinc. At 250°C the zinc oxide obtains its specifical characteristic structure. It is assumed that the stabilizing action of the compact and thin layer of zinc oxide reduces after its recrystallization.

The author was advised by L.N. Gorokhov with respect to the method applied with mass spectroscopic tests. There are \$\mathcal{4}\$ figures, 2 tables, and 4 references, 2 of which are Slavic.

Card 3/4

#### CIA-RDP86-00513R001238920014-1 "APPROVED FOR RELEASE: 06/15/2000

Mass Spectrometric Determination of the Heat of Sublimation of Real Crystals. I. Zinc.

76-12-6/27

ASSOCIATION:

Moscow State University imeni M.V.Lomonosov (Moskovskiy

gosudarstvennyy universitet im. M.V. Lomonosova).

SUBMITTED:

July 11, 1956

AVAILABLE:

Library of Congress

Card 4/4

CIA-RDP86-00513R001238920014-1" APPROVED FOR RELEASE: 06/15/2000

。 1982年 - 1987年 - 19

AUTHORS:

Poltorak, O. E., Panasyuk, G. P.

76-32-2-36/38

TITLE:

On the Sintering of Catalysts

(K voprosu o spekanii katalizatorov)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1958, Vol. 32, Mr 2, pp. 476-471

(USSR).

ABSTRACT:

The results given here were obtained in 1955. The properties of sikver catalysts were investigated which had been obtained by a thermal decomposition of (COOAg). The decomposition lasted for 5 hours, the temperature gradually rising from 150 to 200°C. The earthy argentite samples obtained were sintered at from 350 to 700°C for 3 hours in a furnace previously heated to the de= manded temperature at a residual gas pressure (air) of , l torr. After sintering, the catalysts were crushed and sieved in an agate mortar. As control process the decomposition of hydrogen peroxide (at 20 ±0,05°C) was used. The "sintering curve" is given. From it can be seen that the sintering activity decreases almost linearly with the rise of temperature but a relative ac=

Card 1/2

tivity maximum can be found within the range of 570°C. The data

On the Sintering of Catalysts

76-32-2-36/38

obtained clearly show just as well as those of Maxted and Loon (reference 5) another picture than that obtained in references 1 - 3. It is assumed that this difference is dependent upon the characteristic features of experimental methods. It is pointed out that the samples obtained at high temperatures do not reproduce the process of samples sintered at low temperatures. It is demanded to standardize the initial earthy metallite by means of previous crystallization at an arbitrarily fixed temperature. There are 1 figure, and 6 references, 4 of which are Soviet.

ASSOCIATION:

Moscow State University imeni E. V. Lomonosov

(Moskovskiy gosudarstveingy universitet im. 1. V. Lomonospya)

SUBMITTED:

June 25, 1957.

1. Silver catalysts--Sin oring 2. Sintered catalysts--Effectiveness

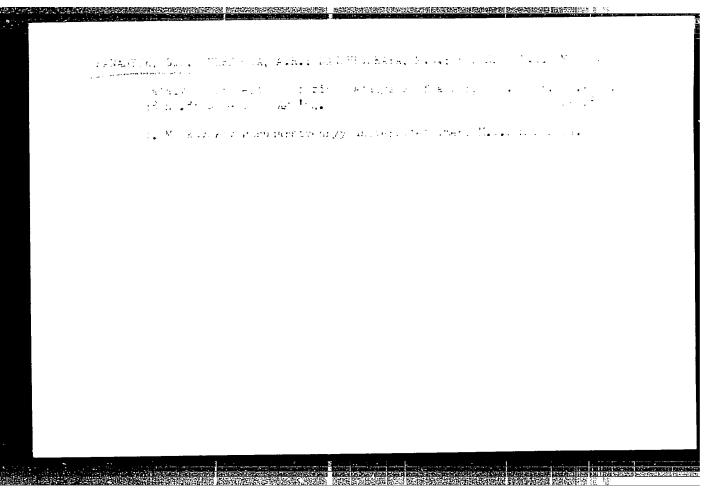
Card 2/2

THE PERSON AND PROPERTY OF THE PERSON AND PROPER

DANCHEVSKAYA, M.N.; PANASYUK, G.P.; KOBOZEV, N.I.

Mass-spectrometric method of studying the mechanism of methanol dehydrogenation in zinc vapors. Zhur.fiz.khim. 35 no.9:2125-2129 '61. (MIRA 14:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova. (Methanol) (Dehydrogenation)



### "APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238920014-1 医格勒氏氏征性原体 医克拉克氏性甲状腺素 医多种性皮肤 医多种性多种

MANAS YUK, Category: USSR/Solid State Physics - Systems B-4

Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 1155

: Kornilov, I.I., Panasyuk, I.f. Author

:: Institute of Metallurgy, USSR Academy of Sciences

: Diagrams of Composition -- Property of the Ion-Nickel System Inst Title

Orig Pub : Izv. Sektora fiz khim analiza !ONKH AN SSSR, 1956, 27, 164-170

Abstract : The diagram of state for Fe -- Ni/revised on the basis of investigation results and on the basis of literature data. This diagram must include the region of formation of the Ni 3Fe compound and its solid solutions. Ni 3Fe is characterized by a single minimum on the composition vs hardness, strength, relative elongation, and reduction of transverse cross section diagrams upon rupture, and also by a singular point on the composition-heat resistance is otherm at 450°. This singualr point vanishes on the isotherm at 800°. The boundary of the 2 -solid solution in the Fe -- Ni system appears at room temperature (7 -- 8% Ni) only in the form of a break on the diagram showing the

composition vs. reduction in transverse area upon rupture. The boundary of the two-phase X ry region and of the / solid solution corresponds to 28.6% of Ni.

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> CIA-RDP86-00513R001238920014-1" APPROVED FOR RELEASE: 06/15/2000

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AUTHOR TITLE KISHKIN, 5.T., PANASYUK, I.O., On the brittleness of Chromium.

20-6-21/59

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(O khrupkosti khroma - Russian)

PER IODICAL

Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 6, pp 1263-1264 (U.S.S.R.)

**ABSTRACT** 

It is possible to understand the viscosity of chromium if one takes into consideration the scheme of the viscous and of the brittle fracture (as proposed by A.F. Ioffe) as well as the experimental data on chromium and its alloys. According to these concepts, the resistance to rupture must remain relatively constant in a rather large temperature interval and decrease only at sufficiently high temperatures. The experimental results obtained by the authors of the paper under review suggest that with increasing temperature the resistance to rupture of the polycrystalline commercial chromium increases but does not remein constant. Up to a certain temperature the elongation equals zero, but then the elongation increases and the brittle fracture goes over into a viscous fracture. But if the threshold value of the cold-shortness of chromium depends on the melting temperature, then the transition from the viscous to the brittle fracture should actually take place below the normal temperature. Also in the steels which are hardened on martensite the resistance to rupture increases if the annealing temperature is raised. It is probable that all elements which dissolve in the one or the other metal in accordance with the principle of penetration (similarly to carbon in iron) are in a position to strongly deform the crystal

Card 1/2

On the Brittleness of Chromium.

20-6-21/59

lattice of the metal in the solid state. As seen from this point of view, the low resistance to rupture of chromium at normal room temperature is connected with local distortions of the crystal lattice. These distortions are caused by elements which penetrate into the chromium and which enter a solid solution with chromium (inter alia, N, O, H, C, B), among these elements, N deserves particular attention. The gas admixtures have a considerable influence on the threshold value of the cold-shortness of chromium. On basis of this fact, the following can be explained: Commercial chromium is not a pure metal but rather an alloy, with a crystal lattice, which is deformed in single parts of the grains. The elements which form solid penetration-solutions have a different influence on the plasticity of chromium. The paper under review discusses some details, particularly in connection of the penetration by nitrogen. The heterogeneity of the solid solution and the difference in the phases of commercial chromium make it brittle. Nitrogen is one of the most harmful admixtures. ( 1 reproduction).

ASSOCIATION

All-Soviet Scientific Research Institute for Aviation Materials PRESENTED BY REBINDER P.A., Member of the Academy,

SUBMITTED 24.3.1956

AVAILABLE

Card 2/2

Library of Congress

SOV/124-58-8-9391

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr. 8, p. 142 (USSR)

AUTHORS: Kishkin, S.T., Panasyuk, I.O.

Concerning the Brittleness of Chromium (O khrupkosti khroma) TITLE:

V sb.: Issled. po zharoprochn. splavam. Vol 2, Moscow, AN PERIODICAL:

SSSR, 1957, pp 135-140

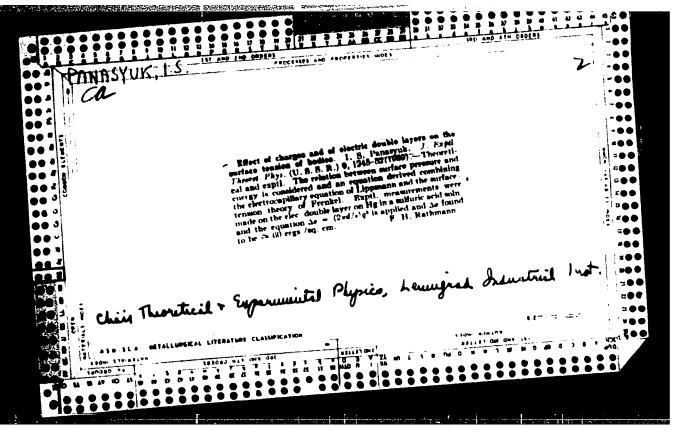
See also Dokl. AN SSSR, 1957, Vol 113, Nr 6, pp 1263-ABSTRACT:

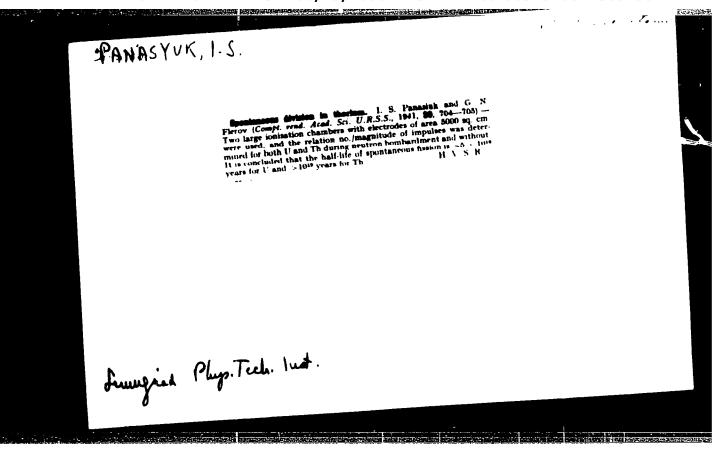
Card 1/1

PANASYUK, I.O., kand. tekhn. nauk; STROYEV, A.S., kand. tekhn. nauk, retsenzent; SHCHIL'TSEV, A.N., red.; ARTAMONOVA, V.S., tekhn. red.

[Chromium and its alloys; review of foreign and some Russian publications issued during 1950-1960]Khrom i ego splavy; obzor zarubezhnoi i nekotoroi otechestvennoi literatury za 1950-(MIRA 1:112) 1960 gg.[n.p.] 1961. 39 p.

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut aviatsionrykh materialov. (Bibliography--Chromium)





PANASYUK, I.S., knod. fiz.-met. nauk

The theory of matter and the progress of physics. Mauka i shizn'
(MIRA 11:8)
25 no. 6:31-35 Je 159.

(Matter)

## "APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238920014-1 ,我们们就是一个人的人,我们们也不是一个人的人,我们们也没有一个人的人,我们们也没有一个人的人,我们们也没有一个人的人,我们们也没有一个人的人,我们们也没有一个

05433

Konakhovich, Yu Ya, and Fanasyuk, I S.

A Flat Crystel Neutron Spectrometer (Neytronage Spektrometr s ploskim kristallom) AUTHORS:

Pritory tekhnika eksperimenta, 1950, Ar 7. TITLE: PERIODICAL

ABSTRACT

A photograph of the spectrometer is shown in Fig. 1 and a particular of the vertical neutron beam of a urbhim up in the path of the vertical neutron is in the reactor. PI 26-31 (USSR) eraphite reactor. The primary collimator is in the followith a mixture of a steel tube - 2 m long. A second collimator filler With a mixture of boron carbide and paraffin is set up at a distance of life K shove the first collimator minimum divergence of the diffracted neutron beam ; A table with a demountable crystal holder is placed above the second collimator and is followed by an endwindow proportional counter of monochromatic neutron. When diffracted neutrons with energy close to the Maxwell distribution maximum were detected, the hamiof county her minute obtained with this counter was E of X 10% which corresponds to 1.6 X 106 neutrons for

Card 1/x

05433 SOV/120-59-3-4/46

A Flat Crystal Neutron Spectrometer

minute through an area of 12 x 25 mm. The resolving power of the instrument was measured using a cadmium diaphragm placed in front of the counter window. Tries types of crystals were used. Calcite CaCO<sub>3</sub>(100), d = 3.029 x 10-8 cm; lithium fluoride LiF(100), d = 2.005 x 10-8 cm; and quartz SiO<sub>2</sub>(1340), d = 1.177 x 10-8 cm. The dimensions of plates were 210 x 40 x (2 - 4) mm. Each crystal consisted of two or three monocrystalline plates. The plates were polished to coincide to within 30". First order reflection neutrons may be detected with calcite between 0.003 and 6 ev, and with lithium fluoride and quartz between 30 and 60 ev. The neutron detector was an end window proportional counter 68 cm long filled with boron trifluoride (natural isotope mixture) at a pressure of 575 mm Hg. Another counter which was used also employed boron trifluoride containing 84% of Bic at a pressure of 500 mm Hg. The counter was set up so that the diffracted neutron beam travelled parallel to the counter wire. The resolving power of the counting apparatus was (2.5 ± 0.4) x 10-5 sec. The counter

Card 2/3

PANASYUK, 1.5.

Literan ny die e cf a e mas ind the direction of the constition astron. Share 3 no. 1:191-192 Ja-7 '61.

(III. 14:2)

1. Institut toury of im. I.V. Nu chateva di ...

(Chateal decomps) (Isotopes—berny)

:16:00

37790 5/120/62/000/002/014/047 E039/E520

STANDARD CONTRACTOR SANDARD PRODUCTS

AUTHOR:

Panasyuk, I.S.

rirle:

On the measurement of absolute activity by a double

coincidence method

PERIODICAL: Pribory i tekhnika eksperimenta, no.2, 1962, 63-64

TEXT: It is assumed that the radioactive preparation and the measuring apparatus satisfy the following requirements: 1) Every disintegrating atom emits two types of particle ('a' and 'b') practically simultaneously, isotropically and without angular coupling. (2) The half-life of the preparation should be much greater than the duration of measurement  $\Delta t$ . (3) The measuring apparatus should be a combination of two indicators, each of which is sensitive to both types of particle. The number of pulses on each indicator should be measured  $(a_1, b_1, a_2, b_2)$  and also the number of coincidences (index c). There should be a shield such that, the combined flux can be measured on both indicators, or particles of type 'a' should be completely absorbed while particles of type 'a' are unaffected. (4) The arrangement should be such that geometry effects can be neglected. The following formula can then Card 1/3

On the measurement of absolute ... S/120/62/000/002/014/047 E039/E520

be used to calculate the absolute sensitivity S in disintegrations/sec

 $s = (N_{a1}.N_{b2} + N_{a2}.N_{bl})/\triangle t \cdot N_c \begin{pmatrix} al - t^2 \\ a^2 - bl \end{pmatrix}$  (1)

where  $N_{al}$ ,  $N_{bl}$  are the numbers of pulses in time  $\triangle t$  sec on indicator 'l' for 'a' and 'b' type particles.  $N_{a2}$ ,  $N_{b2}$  refer to indicator '2'.  $N_{c} \binom{a_1-b_2}{a_2-b_1}$  is the number of coincidences in time  $\triangle t$  sec on indicators 'l' and '2' for simultaneous counts of 'a' type particles on indicator 'l' and 'b' type on indicator '2' and type particles on indicator 'l' and 'b' type on indicator '2' and vice versa. This method gives twice as many coincidence counts as vice versa. This method gives twice as many coincidence counts as are obtained by the earlier method (i.e. particles of type 'a' only counted on indicator 'l' etc.). Two particular cases of the described method are given:

1) If particles 'a' and 'b' are sufficiently identical nearly all

the above requirements can be neglected. Eq.(1) then becomes  $S = \frac{1}{2} N_1 N_2 / \Delta t N_c (1 - 2), \qquad (2)$ 

where  $N_1$  and  $N_2$  are the number of pulses in time  $\triangle$ t sec on Card 2/3

## PANASYUK, I.S.

Absolute activity measurement by the coincidence method in the case when several identical particles are generated in each decay event. Frib. i tekh. eksp. 8 no.2:66-68 Mr-Ap 163. (MIRA 16:4)

1. Institut atomnoy energii AN SSSk.
(Radioactivity—Measurement)

**公司的经验工程的证据的证据的证据的证据的证据的证据的证据的** 

L 38474-66 EWT(m)  ACC NR: AR6017215 SOURCE CODE: UR/0058/05/05/05/05/A
AUTHOR: Panasyuk, I. S.
TITLE: Measurement of radioactive-source decay rate by the method of coin rue to
SOURCE: Ref. zh. Fizika, Abs. 12A521
REF SOURCE: Tr. 6-y Nauchno-tekhn. konferentsii po yadern. radioelektron. T. 1 Atomizdat, 1964, 38-43
TOPIC TAGS: radioactivity measurement, radioactive decay, radioactive source, coincidence method Country,
ABSTRACT: The effect of the density distribution of radioactive atoms in test samples and self-absorption of radiated particles on the final formulas for calculating the absolute activity of compounds during measurements of the decay rate by the method of coincidences has been examined. Several special cases of characteristics of samples have been used, in which complex coefficients were eliminated from the calculation formulas thus making possible to simplify them substantially. [KP]
SUB CODE: 18/ SUBM DATE: none

MIGACH, V.B., Shan, KOVALEV, C.K., Inzn., PANASYUK, I.V., Inzn., MERICA, I.V., nze., BOYKO, I.F., Snzn.

Single-ever wall panels of sing periods ement, Stronger Might and Might

S/185/60/605/00-27/3 V274/V300

9.4177 (1051,1114)

Symashkevych, A.V. Kot, I.V. and Panasyid. 100

AUTHORS:

Induced conductivity in Cdie and Ambe

TITLE:

Ukrayins kyy fizychnyy zhurnal. v. 5. no. 4, 7) 6.

PERIODIC.I.:

The results of measurements are given of the country of the same c ity in thin films and single crystals of date and simple crystals of the state and single crystals. of Znse, under electron bombardment with energies up to 3. 3. The thin edge films and straight with energies up to 3. 3. The thin edge films are contained by the thin edge films are contained by the contained b The thin Odie films were obtained by vaporization of a large size. men on a glass base in a vacuum of the order men on a glass base in a vacuum of the order of indiana, and zone on the walls of a quarter of the measurements were conducted by a more of the measurements which is the conducted by the conducted er. The mensurements were conducted by a method analogodal it. er. The mensurements were conducted by a method anaturement of the dependence of the open of the authors. The dependence of the open of an earlier work by two of the authors intensity and on the correct intensity and on induced conductivity on the current intensity and on the therest the entermy electrons too investigated. induced conductivity on the current intensity and on the the specific the specific the strategated. The surface of the specific the orimary electrons was investigated in order to remove according mens was irradiated by an electron beam in order to remove according to mens was irradiated by an electron beam in order to remove according to the specific transfer to the conductivity on the current intensity and on the the cherging the specific transfer to the conductivity of the current intensity and on the cherging the conductivity of the current intensity and on the cherging the conductivity of the specific transfer to the specific transfer to the specific transfer to the conductivity of the current intensity and on the current intensity and on the cherging transfer to the specific transfer transfer to the specific transfer transfer to the conductivity of the current intensity and on the current intensity and current intensity a

Card 1/3

3/135/60/005.0 4 5/3 2 27949 D274/D306

Induced conductivity. .

gas (which traps carriers). Figures are given which name is a pendence of the induced current le on the electron character and the electron current le. It is evident trout the reception of the Gdre-single crystals is increases non intermity the desired of the single crystals is increases non intermity the state of the single crystals is increases non intermity the state of the single crystals is increases non intermity the state of the single crystals is increased in the single crystals. dependence of to on te is linear or small accelerate only the sensitivity of made crystals of one in it than that of cadmium stride or commium select. photoconductivity is also lower. Znac rystals are waster electron bombardment but the observed effect was wearen than CdTe For ZnSe, the dependence  $I_{c}(t_{0})$  is linear constant. non-linear. It is noted that anse crystals are acts to be visible II bt than Jare-cryst-15 . It is viscal to 1 intensities of irradiation ( $l_c v_i$ ) the theory of the greater, the smaller  $l_e$  or the leaster  $v_i$ . conductivity depends linearly on the intensity of real This confirms the theory developer, what we appear to the theory developer. 24, 961, 1054). Computations shower that the ... ... ... e.e. of primary electrons is before various from Mean and the contractions of primary electrons.

Card 2/3

### "APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238920014-1 。 1. 19 1.

Induced conductivity...

\$/185/60/005/004/098/021

(with energies from 1 to 4 Kev), and in 4nse from 4.6.10-3 to with energies from 1 to 4 MeV/, and 14 Anse from 4.0-10 to 7.4.10-2 \(\mu\). Thus, one of the reasons for increased conductivity with greater energy of primary electrons, is their depth of penetration. There are 6 figures and 9 references: 3 Soviet-bloc and 6 non-Soviet-bloc. The references to the English-language publications read as follows: K. Kronig, Phys Rev. 73, 1212, 1940; L. Phys. Rev., 79, 171, 1950; F. Ansbacher, A. Ehrenberg, Proc. ASSOCIATION:

Kyshynivs' cyy derzhavnyy universytet (Kishinev

SUBLITTED:

November 12, 1959

Card 3/3

22037

24,7700(1035,1043,1143) 26.2421

3/151,500

AUTHORS:

Simashkevict, A. V., Kot, L. 7., and lanasyuk, L. 1.

TITLE:

Effect of the critical material or the cathode conjuctivity

of cadmium sulfide and cadmium relenide

Fizika tversogo tela, v. 3, no. 1, 1961, 1955-1,30

TEXT: While the effect of the contact material on the photoconductivity of CdS has been studied many times before, among others also by V. 10. Lashkarev, D. N. Lazarev, and M. K. Sheynkman, its effect on the cathode conductivity had not yet been investigated. The authors have investigated now the effect of ohmic and nonohmic contacts on the distribution of the cathode sensitivity in single crystals of CdS and CdSe by a probe method described by them in Ref. 4 (Uch. zap. Kishinevsk. gos. univ. 29, 1957). To study the role of the electrodes, "probe characteristics" \* retaken, i.e., the samples were irradiated by a narrow electron probe which could be moved from one electrode to the other. The single crystals stalls came from I. B. Mizetskaya f IP AM USSR (Institute of Physics, Ar "kr. ... The electrodes were evaporated on the crystal in vacua. The distance

Card 1/4

22037

3,181,61 (03, 04 007 3) B102/3014

Effect of the contact ...

between them was about 5 mm, 10 times as large as the diameter of the probe. In all, three groups of samples were measured: The first group consisted of CdS and CdSe crystals with ohmic contacts (In), the second of such with nonohmic contacts (Au), and the third of mixed contacts (In - Au). The crystals showed no cathodoluminescence. Fig. 1 shows a typical probe characteristic for samples of the first group. The ordinate is the cathode conduction current  $\mathbf{I}_{\mathbf{k}}$ , defined as the difference between

the current flowing through the sample on irradiation and the lark current. The abscissa is the potential between the plate moving the probe and one of the electrodes. The characteristics in Fig. 1 were taken for a single crystal of CdSe with an electron energy  $V_1 = \frac{1}{2} |k_0 v_1| = \frac{1}{2} |k_0 v_2|$  a current

strength of the irradiating beam  $I_1 = 4 \cdot 10^{-8}$  a, and a potential of r = v

at the sample. Curve 2 was taken for the reversed polarity. A characteristic feature of these samples is that the cathode conductivity in the central region is practically independent of the point of inclining of the electron beam and of the direction of the field. Fig. , shows analogous characteristics for single crystals of CdDe with Au contacts.  $\{V_{\parallel}=1 \text{ kev}\}$ 

Card 2/4

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238920014-1"

22037 S/181/61/003/004/003/030 B102/B214

Effect of the contact ...

I<sub>1</sub> = 1.10<sup>-7</sup> a, and 25 v at the sample). Here, the relationships are completely reversed: The cathode conductivity drops in the region near the cathodes and reaches a maximum in the central region (near the electrode which, at the given moment, is the cathode). Fig. 3 shows the characteristics of CdSe with mixed contacts (2.4 kev, 6.10<sup>-7</sup> a, 25 v). Independently of the polarity, the lowest conductivity here is on the side of the Au contact near which also a maximum of the characteristic appears. A minimum appears near the In contact, and in the immediate neighborhood there occurs a steep rise independently of the polarity. The results are indicative of a special role of the holes on irradiation of parts away from the cathode. The authors thank D. N. Nasledov for advice and interest. There are 3 figures and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc.

ASSOCIATION:

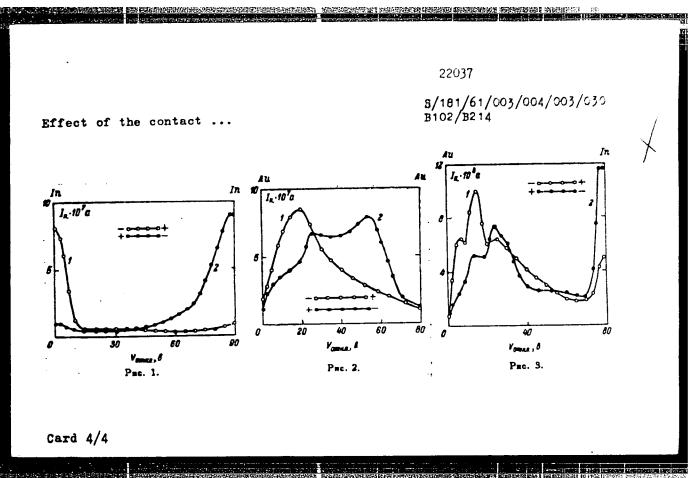
Kishinevskiy gosudarstvennyy universitet (Kishinev State

University)

SUBMITTED:

May 10, 1960 (initially), November 30, 1960 (after revision)

Card 3/4



APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238920014-1"

L 52781-65 EWT(1)/EWT(m)/EWG(m)/T/EWP(t)/EWP(b)/EWA(h) Pz-6/Peb RDW/JD/AT IJP(c) ACCESSION MR AP5010746 UR/0181/65/007/004/1242/1243 AUTHOR: Kot N. V.; Panasyuk, L. M.; Simashkevich, A. V.; Tsurkun, A. Ye. TITLE: Intrinsic recombination radiation of zinc telluride В SOURCE: Fizika tverdogo tela, v. 7, no. 4, 1965, 1242-1243 TOPIC TAGS: "inc telluride, recombination radiation, intrinsic radiation, pn junction, voltage current characteristic, spectral distribution ABSTRACT: This is the first known investigation of recombination radiation produced by injection through a zinc-telluride p-n junction. The junctions were produced in single-crystal zinc telluride plates with area up to 1 mm2. The test consisted of determining the voltage-current characteristic, the spectral distribution of the recombination radiation at various current densities, and the dependence of the radiation intensity on the current density. The dark voltage-current characteristics are strongly asymmetrical, with the forward current being approximately 10 mA at 2 V and the inverse current being 5 µA at 8 V. Passage of current through the sample in the transmission direction results in recombination radiation with an emission band lying in the 0.5--0.7 µ wavelength interval. With increasing Caro 1/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238920014-1"

1 52781-65
ACCESSION ER: AP5010746
current density, the intensity of the radiation increase

current density, the intensity of the radiation increases and the width of the band decreased as a result of the shift of the leng-wave boundary toward shorter wavelengths. The energy of the radiation quanta was determined from the positions of the maxima of the spectral curves to be 2.1--2.2 eV, corresponding to the width of the forbidden hand of zinc telluride at room temperature. It is thus concluded that the radiation observed is intrinsic recombination radiation. The intensity of the radiation at room temperature increases somewhat faster than linear up to current densities of 5 A/cm<sup>2</sup>. When the current density exceeds 1 A/cm<sup>2</sup>, the radiation can be observed visually both in the direction parallel to the plane of the junction and perpendicular to it. The brightness amounted to 5 nit at 20C and 50 nit at 77K. "The authors thank Professor D. N. Nasledov for continuous interest in the work and for valuable advice." Orig. art. has: 2 figures.

ASSOCIATION: Hishinevskiy gosudarstvennyy universitet (Kishinev State University)

SUBATTED: 24 Apr64 ENCL: 00 SUB CODE: BS, OP

ER REF SOV: (100 OTHER; 000

616 Card 2/2

EWT(1)/EWT(m)/EWG(m)/T/EWP(t)/EWP(b)/EWA(h) Pz.-6/Peb IJP(c) RDW/JD/AT UR/0181/65/007/001/1244/1245 ACCESSION NR: AP5010747 AUTHOR; Kot, M. V.; Panasyuk, L. M.; Simashkevich, A. V.; Tsurkan, A. Ne.; Sherban D. A. 32 TITLE: On the intrinsic recombination radiation of ZnSe--ZnTe heterojunctions 30 SOURCE: Fizika tverdogo tela, v. 7, no. 4, 1965, 1244-1245 TOPIC TAGS: Leterojunction, pn junction, recombination radiation, intrinsic radiation, voltage current characteristic, spectral distribution ABSTRACT: The authors report the first successful attempt to produce n-p heterojunctions ZnSe--ZnTe in crystal-layer form, to obtain effective injection of minority carriers, and to observe intrinsic recombination radiation. The voltagecurrent characteristic of such junctions has the usual diode character. The forward current was several milliamperes at 2 V, and the inverse current up to 20 µA at 5 V. The dependence of the short-circuit current on the illumination, the luxampere characteristics, and the spectral distribution of the photo emf were investigated. In all the samples the short-circuit current depends linearly on the illumination. The ne-load voltage was C.6 -- 0.7 V. The samples were sensitive to Card 1/2

1	52790-65 ACCESSION NRI	AP5010747						2
	when current tion became v tion radiation intensity of ponding quant of the forbid	llowed in the isible at curr coccupies the the radiation im energy is 2 den bands of 2	erval 0.4-0.6 transmission dent densities wavelength ba increased with 2.6 and 1.82 eV anse and ZnTe a	irection of s on the order nd in the int increasing c , which agree	uch a junct of 0.2 A/cr erval 0.44- urrent dens s with the ature (2.6	ion. 2. The contract of the co	The radia- ie recombin µ, and the The correstive width 1 eV). The	18.» 3. 15. *
	temperature the liquid-hydrogo grateful to P	ne glow bright in temperature rofessor D. N.	ness was appro for a 1 mm <sup>2</sup> j Rasledov for	ximately 50 nunction area. continuous in	"The auti	iora at	e deeply	
	temperature ti liquid-hydrog grateful to P able advice."	he glow bright in temperature rofessor D. N. Orig. art. h	ness was appro	ximately 50 nunction area. continuous in	"The auti terest in t	he wor	e deeply k and valu	<b>!</b>
	temperature ti liquid-hydrog grateful to P able advice."	he glow bright in temperature rofessor D. N. Orig. art. h	ness was appro for a 1 mm <sup>2</sup> j Nasledov for as: 2 figures	ximately 50 nunction area. continuous in	"The aut; terest in t (Kishiney	iora ar he wor	e deeply k and valu	<b>!</b>
	temperature to liquid-hydrogo grateful to Prable advice."  ASSOCIATION:	he glow bright in temperature rofessor D. N. Orig. art. h Kishinevskiy	ness was appro- for a 1 mm <sup>2</sup> j Nasledov for was: 2 figures gesudarstvenny	ximately 50 nunction area. continuous in . y universitet	"The aut; terest in t (Kishiney	iora ar he wor	e deeply k and valu	<b>!</b>

Thermostatic con	trol of electric motors	a. Avtomatyka no.2:25-	-30 '56. M 9:10)
l.Institut yelek (Thermostat) (El	trotekhniki Akademii na ectric motora)		QZ 4-107

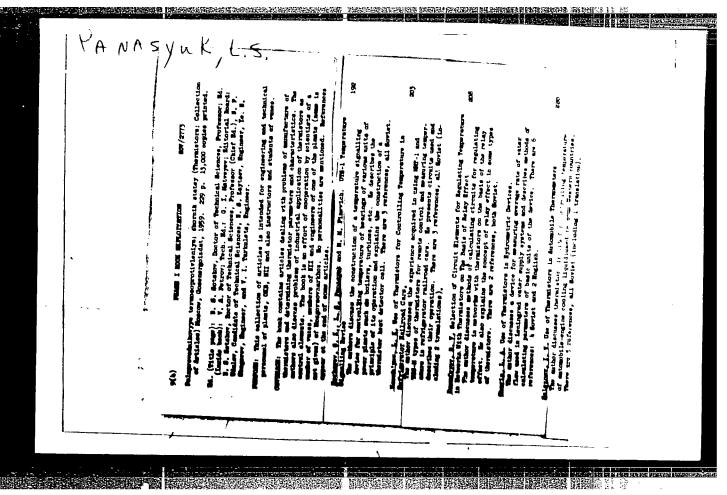
THE PROPERTY OF THE PROPERTY O Lategory : USSR/ Magnetism - Ferromagnetism Abs Jour : Ref Zhur - Fizika, No 1, 1957 No 1419 : Zaychikov, M. M., Zheltenkova, R. M., Kondratova, C. T., Korosty, W. A. F. Author Korotkov, Yu. Ye., Mashirin, B. I., Mymhin, Yu. N., Panasyuk, L. J. Title : Investigation of the Effect of the Chemical Composition on Magneti Properties of Electrotechnical Iron. Orig Pub : Tr. Mosk. aviats, in-ta, 1956, vyr. 60, 4-12 Abstract : A statistical study was made of the effect of grain size of the microstructure and of the chemical composition on the value of H of Armoo in a was data obtained in regular production shop tests of the melts (Chemical value of  $H_0$  and the percentage carbon content was found to be  $r_{ij} \in \mathbb{R}^{2}$ . If and the correlation between  $H_{\rm C}$  and the percentage sulphur contents  $\widehat{w}as$  r (1 = 0.372.  $H_{\text{C}}$  is creases with increasing contents of C or S. The content of Mm, P, Mi, and Cu, doe s not exert a noticeable effect on He provided its value is within the GOST standard limit. A statistical comparison of the data on the size of the grain of the micro-structure of Armoo iron and on H, disclosed a linear relationship between these quantities, and the correlation coefficient was found to be  $r_{0.3} = 0.555$ . The maximum Card : 1/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238920014-1"

Category	: USSE/Magnetism - Forromagnetism	4
Als Jour	: Nof Zhur - Fizika, No 1. 1 57 De 1811	<u> </u>
	The maximum offer of H <sub>C</sub> is exerted the size of the minimum of H <sub>C</sub> is exerted the size of the minimum of the size. The print simultaneous influence of three factors of H <sub>C</sub> of iron in the given high the multiple correlation coefficient.	
	$R_{0,1,2,3}$ $\sqrt{0.21720, +0.2081}$ + 0.512 $r_{0.3} = 0.653$	

#### "APPROVED FOR RELEASE: 06/15/2000

CIA-RDP86-00513R001238920014-1



YEREMEYEV, I.S.; FANASYUK, L.S.

Automatic control system for charging hoppers with molding mixtures. Lit. proizv. no.1:17-19 Ja \*62. (MIRA 16:8)

(Sand, Foundry)

(Foundries—Equipment and supplies)

PANASYHK, L.S.

Automatic digital computer for proportioning cupola charges.

Avtom.i prib. no.3:9-11 J1-S '62. (MIRA 16:2)

1. Institut liteynogo proizvodstva AN UkrSSR.

(Electronic computers)

(Foundries—Equipment and supplies)

KRYZHANOVSKIY, 0.M., doktor tekhn.nauk; SOLTYK, V.Ya.; PANASYUK, L.S.

Optimalizing control of billet heating in a scaking pit.
Avtom.i prib. no.3:15-18 Jl-S '62. (MIRA 16:2)

1. Institut liteynogo proizvodstva AN UkrSSR.

(Furnaces, Heating) (Electronic control)

VRUELEVSKIY, V.I., inzh.; KRYZHANOVSKIY, O.M., inzh.; PANASYUK, L.S., inzh.; RAVICH, K.S., inzh.; SHCHUR, A.G., inzh.; GARNAZHENKO, T.O., inzh.; IEEDEW, Ye.I., inzh.; FSAREV, A.M., inzh.; SALATSINSKIY, V.V., inzh.; SHOKAREV, V.A., inzh.

Over-all mechanization and automation of the compsition of charge. Mashinostroemie no.6:45-47 N-D '62. (MIRA 16:2)

1. Institut liteynogo proizvodstva, AN UKrSSR (for Vrublevskiy, Kryzhanovskiy, Panasyuk, Ravich, Shchur). 2. Toretskiy mashinostroitel'nyy savod (for Garnazhenko, Lebedev, Psarev, Salatsinskiy, Shckarev). (Cast iron-Metallurgy) (Automation)

PANASYUK, L.S.

Digital optimalizing controller for inertial thermal processes. Avtom. i prib. no.2:16-19 Ap-Je '63. (MIFA 18:8)

1. Institut liteynogo proizvodstva AN UkrSSR.

ACCESSION NR: AP4040428

\$/0302/64/000/002/0046/0048

AUTHOR: Panasyuk L. S.

TITLE: Miniature three-phase pulse generators

SOURCE: Avtomatika i priborostroyeniye, no. 2, 1964, 46-48

TOPIC TAGS: pulse generator, three phase pulse generator, contactless pulse generator, silicon diode, diode switch, ferrite diode logic circuit, automatic control system, electronic computer, electronic digital computer

ABSTRACT: A contactless three-phase pulse generator using silicondiode switches has been developed by the Institut problem lit'ya
(Institute for Foundry Problems) of the Academy of Sciences UkrSSR.
The generator supplies ferrite-diode logic circuits with pulses having a phase shift of 120° and produces both operating and blocking
pulses. Blocking of the diode switches is carried out by pulse
transformers and discharge circuits. A master oscillator acts as a
source of driving pulses. The discharge of a capacitor through diode

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ACCESSION NR: AP4040428

switches is used to obtain the required shape of the pulses. These diodes are connected in series with the loads of three channels. With a pulse amplitude greater than 7 amp and a load consisting of 30 magnetic logic elements, a repetition frequency of 1—1.5 Kc is ensured in each channel. The steepness of the pulse front is about 2 amp/µsec. The power of the generator can be increased by 1 to 1.5 times by using high-voltage diode switches connected in series (three in each channel). The generator is distinguished by high reliability, long operating life, stability against mechanical effects, simplicity, small dimensions, and a wide range of operating temperatures (-20 to +70C). It is also free of the disadvantages of generators using thyratrons and transistors. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: 00

ATD PRESS: 3056 -

ENCL: 00

SUB CODE: EC

NO REF SCV: 003

OTHER: 000

Card\_\ 2/2

	NR AP5016084 UR/0302/65/000/002/0023/0025 25 681.142.621
ATTITLE	Kryzhanovskiy, O. M. (Doctor of technical sciences); Panasyuk, L.
(Candida)	of fachnical sciences); Muzykant, A. M.; Zakuta, M. B.
	Contactless reversible analog-to-digital converter 160, NY
SOURCE	Aytomatika i priborostroyeniye, no. 2, 1965, 23-25
	AGS: snalog to digital converter
converte	T: A simple small-size contactless angle-increment-into-pulses was developed and tested under actual operating conditions. A dural ying a few ferrite permanent-magnet segments is rotated (by sensor n the fields of two iron-core coils. The coil inductance changes by 6-
times wi	en the fields of two fron-core cons. The controlled of two field; thus, the operation of a number is controlled. The use of two coils also permits determining the of disk rotation. Stable operation within -60+100C of the converter is

ACCESSION NR: AP501608	4	G
claimed. The converter ha	s been in operation for	one year in the extremal-
1 1	furnace blast at the YOL	Ole Suggi Ingel I rant and all
the automatic mixture-char	ging system or a cupora	furnace at the Yaroslavi
Motor Plant. Orig. art. he	is: 2 figures.	
ASSOCIATION: Institut probl	om 14+1vd AN UkrSSR (Ins	titute of Founding Problems,
AN UKrSSR) Al Latvisu &	II)	
		SUB CODE: DP
SUBMITTED: 00	ENCL: 00	SUB CODE: DF
NO REF SOV: (02	OTHER: 000	
"新"选择,这种企业,但证实的对象,通过在1995年,在1995年的一种特别的基础。		
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Card 2/2		

是代表的经验的现在分词 1985年,并是在1985年的经验的 1986年,

L 12977-66 EWT(1)/EWA(h)

ACC NR: AP6001522

SOURCE CODE: UR/0302/65/000/004/0066/0068

AUTHOR: <u>Kryzhanovskiy</u>, O. M.; Huzykant, A. M.; Panasyuk, L. S.; Tartak, V. G.; Fedorenko, A. G.

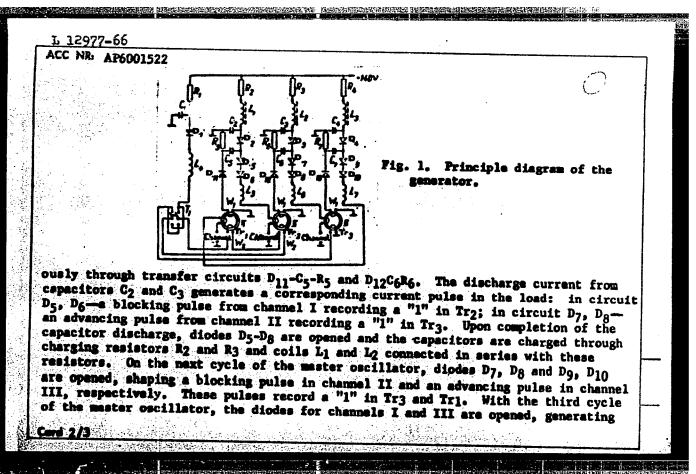
ORG: None

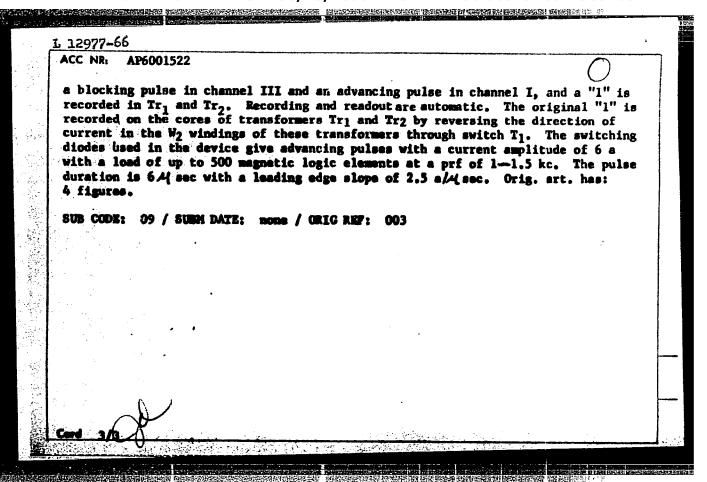
TITLE: An oscillator based on switching diodes for generating three-cycle current pulses for magnetic logic elements

SOURCE: Avtomatika i priborostroyeniye, no. 4, 1965, 66-68

TOPIC TAGS: logic element, magnetic core storage, pulse oscillator, junction diode

ABSTRACT: A three-cycle <u>pulse generator</u> based on diodes has been developed by the <u>Institute of Foundry Problems AN UkrSSR</u> (Institut problem lit'ya). The generator (Fig. 1) is a ring-type three-place 1/2-wave shift register. The elements in the register are three-winding transformers Tr<sub>1</sub>-Tr<sub>3</sub> (ferrite cores with rectangular hysteresis loop) and switching diodes D<sub>5</sub>-D<sub>10</sub> connected in series with junction diodes D<sub>2</sub>-D<sub>4</sub>. The cadence pulse source for the register is an RC relaxation oscillator. The load is connected in the cathode circuit of the switching diodes. In the initial state, diodes D<sub>5</sub>-D<sub>10</sub> are closed and capacitors C<sub>2</sub>-C<sub>4</sub> are charged nearly to the voltage of the power supply. The oscillator is triggered by prerecording a "1" in two elements of the shift register, e.g. Tr<sub>1</sub> and Tr<sub>2</sub>. With the first cycle of the master oscillator, both "1's" are transcribed and pulses are shaped in the W<sub>1</sub> windings of these transformers which open switching diodes D<sub>5</sub>, D<sub>6</sub>, D<sub>7</sub> and D<sub>8</sub> simultane-Cord 1/3





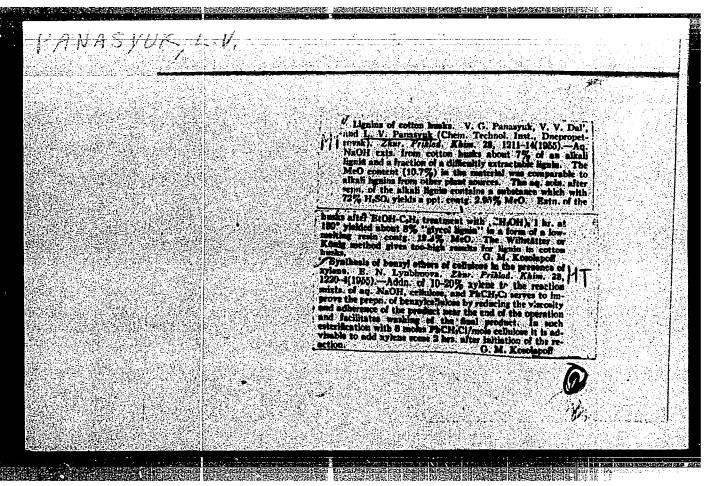
ACC NR. AP7004658 SOURCE CODE: UR/0432/66/000/001/0032/0033 AUTHOR: Panasyuk, L. S. (Candidate of technical sciences); Zakuta, M. B.; Muzykant, A. M. ORG: none TITLE: Contactless pulse-type position transducer SOURCE: Mekhanizatsiya i avtomatizatsiya upravleniya, no. 1, 1966. 32-33 TOPIC TAGS: control circuit, electromechanic converter, electronic circuit, confacture pesition transducer ABSTRACT: A simple and highly reliable contactless position transducer is described. The transducer (see Fig. 1) consists of a movable magnet M with a constant field intensity of approximately 1500 Oe and a fixed toroidal core  $T_{\rm p}$  (dimensions 10 x 2 x 7 mm) made from IM-2 ferrite with rectangular hysteresis loop. The core is magnetized with 5-8-kc semipolar pulses (amplitude, 5-8 amp; rise time 8 a/usec) generated by an RC relaxation oscillator with a switching diode D. The voltage required to switch the diode is 50-70. v. Movement of the magnet changes its magnetic coupling with the toroidal core and produces output pulses in the winding W. Pulse amplitude is proportional to the magnetic coupling between the magnet and the core. Tests revealed the output pulse amplitude to be stable within 11% for supply voltage variations of ±30% for samples having a spacing of 5 mm between the magnet and the core. The Cord 1/2 621.398.694.4.531.4 UDC: 

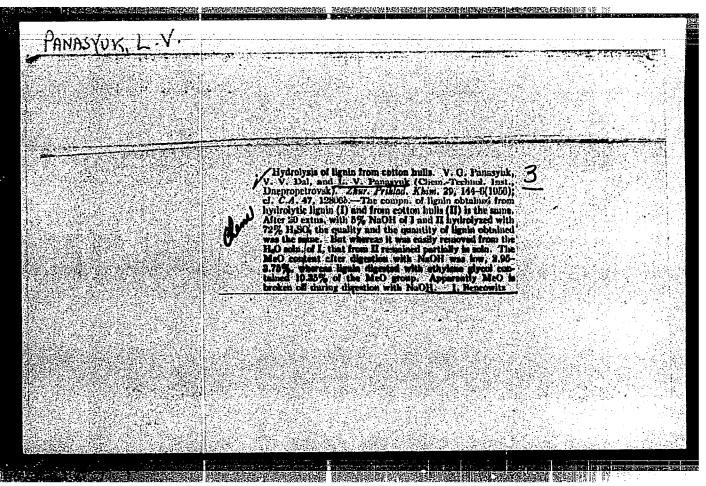
APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238920014-1"

Card 2/2

YEREMEYEV, Igor' Semenovich; PANASYUK, Leonid Stepanovich; TITOVA, N.M., red.; DAKHNO, Yu.B., 'ekhn. red.

[Automatic control devices using magnetic elements] Ustroistva avtomatiki na magnitnykh elementakh. Kiev, Izd-vo (MIRA 17:1)





PANASYUK, V.G.; REPKA, V.P.; PANASYUK, L.V.

Standard design for a hydrolysis-furfurole plant. Gidroliz.i lesokhim.prom. 13 no.1:27 '60. (NIRA 13:5)

1. Dnepropetrovskaya laboratoriya khimicheskoy pererabotki rastitel'nykh otkhodov. (Wood--Chemistry) (Furaldehyde)

PANASYUK, V.G.; REPKA, V.P.; PANASYUK, L.V.; TRUBA, T.I.

Preparation of furfural and other chemicals from plant wastes.

Report No.1: Experiments in the laboratory and industrial units.

Gidroliz. i lesokhim.prom. 13 no.5:6-7 160. (MIRA 13:7)

1. Dnepropetrovskiy sel'skokhozyaystvennyy institut. (Furaldehyde)

PANASYUK, V.G.; REPKA, V.P.; PANASYUK, L.V.

Drepropetrovsk method for obtaining furfurole from tan waste.

Gidroliz. i lesokhim. prom. 14 no.5:8-9 61.

PANASYUK, V.G.; REPKA, V.P.; PANASYUK, L.V.

Influence of various factors on furfurole production from plant wastes by the Dnepropetrovsk method. Zhur. prikl. khim. 34 no. 12:2764-2768 L '61.

(Furaldehyde)

Reaction of p-dimethylamino- and p-diethylaminobenzaldehydes with dicyanodiamides. Zhur. ob. khim. 32 no.1:96-97 Ja '62.

(Benzaldehyde) (Amides)

RESIDENCE SERVICE DE LE SERVICE DE LA PROPERTIE DE LA PORTIE D

REPKA, V.P.; PANASYUK, L.V.; PANASYUK, V.G.

Possibility of the use of salt catalysts in the production of furfurole. Zhur. prikl. khim. 36 no.12:2719-2724 D'63. (MIRA 17:2)

1. Dnepropetrovskaya opornaya laboratoriya Ukrainskogo nauchno-issledovatel'skogo instituta plasticheskikh mass.

PANASYUK, M. I.

Prostoy sposob izgotovleniya plodovykh, yagodnykh i ovoshchr.kt konservov.
Sad i ogorod, 1948, No. 7, c. 01-(3.

CO: Letopis' Zhurnal'nykh Statny, No. 2, Moskva, 1941

PANASYUK, M.I. 25687

Prostoy Sposob Izgotovleniya flodovykh; Yagodnykh I Pvoshchnykh V a crvev. Sad I Ogorod, 1747, no. 7, c. 61-63

S0: LETOPIS NO. 30, 1948

Wine and V	Kine Making						
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MONTHLY I	AST <u>CFS.JA</u>	i Al Esuluis	المستحد المالية	وقنف بيناءة ا	AUTODA EJUGO		

PANASYUE, M.I.

Fruit Wines

Natural wines from a les davine a medicient de tent. Vin. Sala le, na. 1, le, 1.

MONTAIN DIST AN ACCESSAN ACCESS, HEALT OF A ANDRES, ACCUST 1951. Facable and

PANASYUK, M. I.	
Fruit Wines	
Fruit whites	2. No. 2. 1952.
Dessert varieties of fruit and berry wines. Vin. SSSR, 1	2, 100 2, 2,72
9. Monthly List of Russian Accessions, Library of Com	gress, June 1958. Unclassified.
in the second	

# PANASYUK, M.I.

Varieties of cherries for compotes. Kons. i ov. prom. 16 no.10: 32-34 0 '61. (MIRA 14:11)

1. Mleyevskaya opytnaya stantsiya sadovodstva imeni L.P. Simirenko. (Cherry—Varieties)

# PANASYUK, M.I. Best varieties of cherry for the manufacture of juices. Kons.i ov. prom. 16 no.2:34-35 F '61. (MIRA 14:4) 1. Mleyevskaya opytnaya stantsiya sadovodstva imeni I.P.Simirenko. (Cherry) (Fruit juices)

PANAS	YUK, M.I.					
	Selecting plum varieties for dryi 36-38 My 162.	ng. Kons.i ov.prom. 17 no.5: (MIRA 15:5)				
	1. Mleyevskaya opytnaya stantsiya sadovodstva imeni L.P. Simirenko.					
	(Plum-Varieties)	(FruitDrying)				

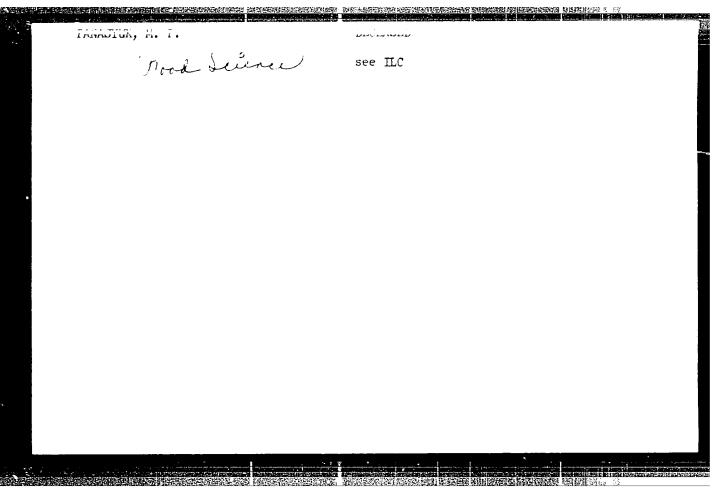
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PANASUK, Mikhail Ignat'yevich [Panasiuk, M.H.]; SEMENOV, C.G. [Sem'onov, O.H.], Fed.

[Processing fruits and berries] Pererabka plodiv 1 iahid.

Vyd.2., perer. i dop. Kyiv, Derzh.vyd-vo sil'khoz.lit-ry,

1958. 175 p.

(Fruit) (Berries)
```



ACC NR: AP6036779 (N) SOURCE CODE: UR/0401/66/000/011/0032/0033

AUTHOR: Gerasimenko, V. (Engineer; Lieutenant colonel); Panasyuk, N. (Senior lieutenant; Technician); Sementsul, I. (Lieutenant)

ORG: none

TITLE: If an engine has been submerged in water...(Salvaging waterlogged tank engines)

SOURCE: Starshina-serzhant, no. 11, 1966, 32-33

TOPIC TAGS: diesel engine, vehicle engine, military tank, servicing technique

ABSTRACT: The precedures undertaken within a military unit to restore the waterlogged diesel engine of a tank to operation, after water has seeped into the engine compartment and reached the level of the engine vents, are described in detail. Experience has shown that with proper servicing, the engine can be salvaged without any aftereffects.

[SC]

SUB CODE: 21, 19/ SUBM DATE: none

Card 1/1

UDC: none

VEREMEYEVA, A.A., inzh.; DUL'ZON, N.A., inzh.; KOBERNIK, Ye.D., inzh.; PANASYUK, N.G., inzh.; SAVOST'YANOV, Yu.Ye., inzh.

Protection of generators from various stator windings damages by means of differential current transformers. Elek, sta. 36 no. 4544)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001238920014-1"

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PANASYUK, O. A., Cand. Tech. Sci. (disa) "Magnetic-soft Metal-Ceramic Materials," Kiev, 1961, 12 pp. (Acad. of Sci. UkrssR. Dept. Tech. Sciences) 170 copies (KL Supp 18-61, 272).

<u> 1 63843-65</u> EWT(1)/FCC	<b>W</b>
ACCESSION NET: AP5020232	UR/0069/65/027/004/0609/0613 • 541.18.053
AUTHORS: Tovbin, M. V.; Par	asyuk, O. A.; Oleynik, L. N
TITLE: On the oritical dim	msions of disintegrating liquid droplets
SOURCE: Kolloidnyy zhurnal	v. 27, no. 4, 1965, 609-613
TOPIC TAGS: <u>rainfall</u> , liqu ハクッラヴ ABSTRACT: Parameters enter	아들아이는 아는 물로 가지를 지르자 속에서 전을 다꾸 중요를 가고하다면 하나 하셨습니다. 이번 시작에 하나가 하나
	$r_{\mu} = \sqrt{\frac{6}{K_{I}}} \cdot \frac{\sigma}{\rho u^{\alpha}} = 2.3 \frac{\sigma}{\rho u^{\alpha}}$
This equation was presented	lisintegrating droplets were determined experimentally, by V. C. Levich (Fiziko-khimicheskaya gidromekhanika, pritical radius of the disintegrating droplet, $\sigma$ the
surface tension of the liqu	ld, u the velocity of fall of the droplet, P density of lotion coefficient. The parameters were determined by

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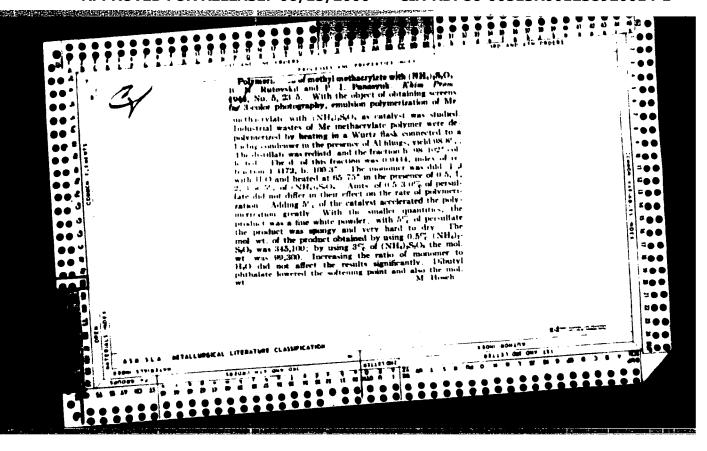
The utilization of lignin as a raw material in the plastics industry.

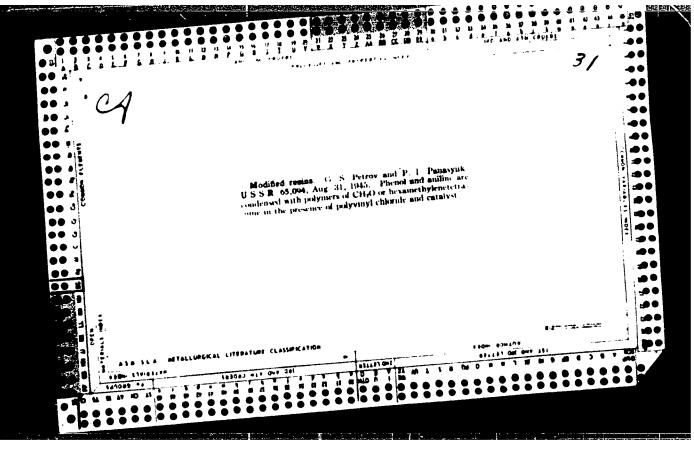
I. P. Losev, V. S. Kaminskii and P. I. Panasyuk. Lesokhim, Prom. 2, No. 7, 30-19(1939); Chem. Zentr. 1939, II, 3888; cf. C. A. 34, 55638.—Lignin with a water content of 3% was condensed with wood tay or with the phenol fractions obtained therefrom (with 33-49% phenol) and also with the phenol fractions obtained therefrom (with NaOH and acids. H2804 in an amt. equal to 5% of the phenol served as a catalyst. The condensation products obtained showed more or less satisfactory properties depending upon the temp. and the amt. of lignin used. With 140-50% lignin (Caled. on the phenol) and a temp. of about 1350 a product was obtained which, when powdered, mixed with 50% wood powder, and pressed into bars, showed an impact resistance of 3.3 kg.-cm. per sq. cm. and an increase in wt. of 0.7% after soaking 24 hrs. in water.

M. G. Moore

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L 02518-67 EWT(d)/EWT(1)/EWT(m)/EWP(w)/EWP(v)/T/EWP(L)/ETT/EWP(k)/EWP(L)/EWP(L AP6023005 ACC NR SOURCE CODE: UR/0185/66/011/004/0455/0457 JD/WW/JG/AT/JH IJP(c) AUTHOR: Dutchak, Ya. Y.; Panasyuk, P. V.; Stets'kiv, O. P. iversity im. I. Franko (L'vivs'kyy derzhuniversytet) Heat and thermoelectric properties of liquid alloys in the tin-lead system Ukrayine by fizichnyy zhurnal, v. 11, no. 4, 1966, 455-457 TOPIC TAGS: alloy system, heat conductivity, pyrometer, thermoelectromotive force, lead containing alloy, tin containing alloy ABSTRACT: The authors study thermal and thermoelectric properties of alloys in the Pb-Sn system with the following concentrations of Sn (wt. \$): 0, 5, 10, 20, 40, 61.9, 80, 96, 98 and 100. Heat conductivity measurements were taken by the heat wave method. The PRK-59 pyrometer was used and the specimens to be tested were placed in cylindrical thin-walled crucibles made from stainless steel. Each crucible was placed in a furnace with two heating units surrounding the specimen coaxially. The chromel-alumel thermocouples were fastened to the interior of the specimen, one at the center, and the other at a given distance from the center. Periodic disconnection of the innermost heating element produced radial heat waves. Fluctuation amplitude did not exceed 1°C. Expressions are given for calculating the heat conductivity coefficients. The results show that these coefficients decrease as temperature is increased. The thermoelectric 2/2

JD/HW-2/JQ ewp(q)/ewr(n)/hds AFFTC/ASD 1 14297-63 8/0126/63/015/00/1/0622/06211 ACCESSION NR: AP3000108 AUTHOR: Datchak, Ta. I.; Panasyuk, P. V. TITIE: Viscosity and electrical conductivity of Bi-Sb alloys in liquid state SOURCE: Fisika metallov i metallovedeniye, vol. 15, no. 1, 1963, 622-621 TOPIC TACE / Bi-So alloy , viacosity, electrical conductivity ABSTRACT: Physical properties of liquid Bi-56 alloys were measured, and an attempt was made to determine, on the basis of the measurements, the most probable nature of the short-range order in the liquids. The Sb concentration in the samples started with 10% and was increased by 10% to 90%. Samples weighing 12 g were placed in vacuum-scaled quartz ampules, and their viscosities and electrical conductivities were measured with a device similar to that of V. M. Clasov. The kinematic viscosity of the liquid alloys was calculated according to the Ye. G. Shvidkovskiv formula. The electrical conductivity was measured by the relative method, with liquid lead and tin serving as standards. The increase in the kinematic viscosity with the increase in temperature followed the exponential law. The electrical conductivity isotherms were in liquid alloys similar to those of solid solutions, and atomic correlations in the two states of alloys were alike. The authors conclude that the nature of the short-range order does not change in liquid alloys. Association: L'vov State University V11

THE PROPERTY OF THE PROPERTY O L-8414-65 EPA(s)-2/EWI(m)/EPB(n)-2/EWP(q)/EWP(b) Pt-10/Pu-4 IJP(c)/AFEIR/ ASD(a)-5/AEDC(a)/SSD/AFVIL/RAEW(t) JD/WM/JG/ ACCESSION NR: AP4048685 8/0126/64/018/001/0155/0156 AUTHOR: Dutchak, Ya. I.; Panysyuk, P. V. TITLE: Study of the viscosity and electrical conductivity of an eutretic antimony-copper alloy-ラー シ) SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 1, 1964, 155-156 TOPIC TAGS: eutectic alloy, copper, liquid state, viscosity, electric conductivity, antimony, antimony base alloy Abstract: Results are given for research on the viscosity and electrical conductivity of copper-antimony alloys in the liquid state. The viscosity was messured by the torsional vibration method, and the electric conductivity -- by the rotating magnetic field method. The alloys used in the esearch had an antimony content of 60, 70, 76, 80 and 90% by weight. The eutectic alloy corresponds to an antimony concentration of 76. % by weight. This is a complex type eutectic (Sb+Cu2Sb). A sharply expressed maximum

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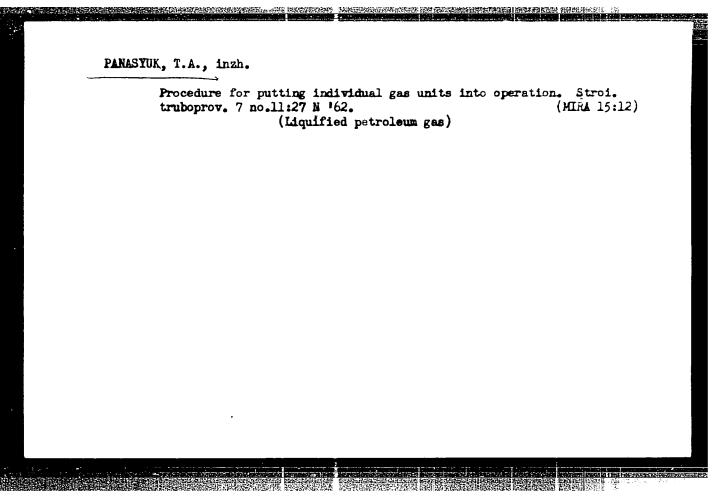
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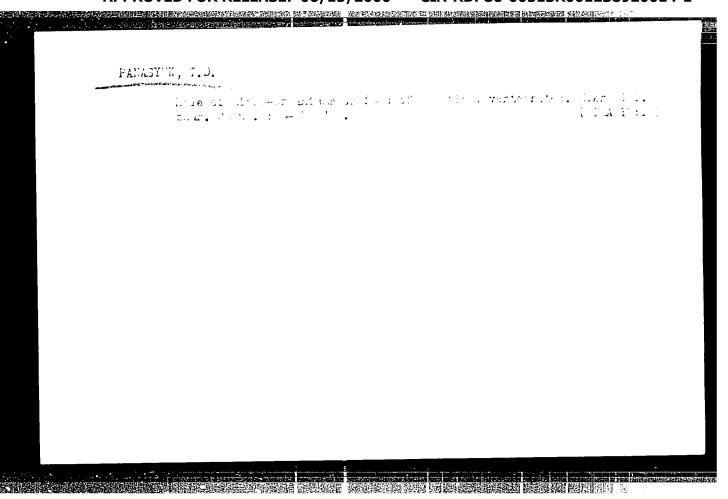
SHARBABCHEV, S.; SHAL'NOV, A., kand.tekhn.nauk; PANASYUK, T., inzh.

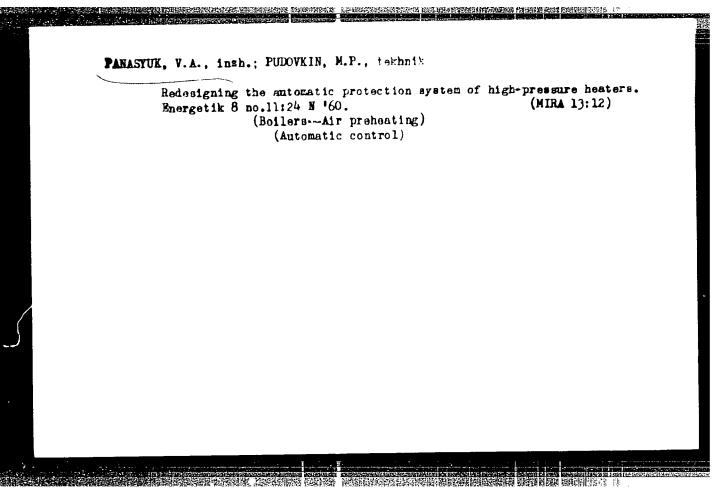
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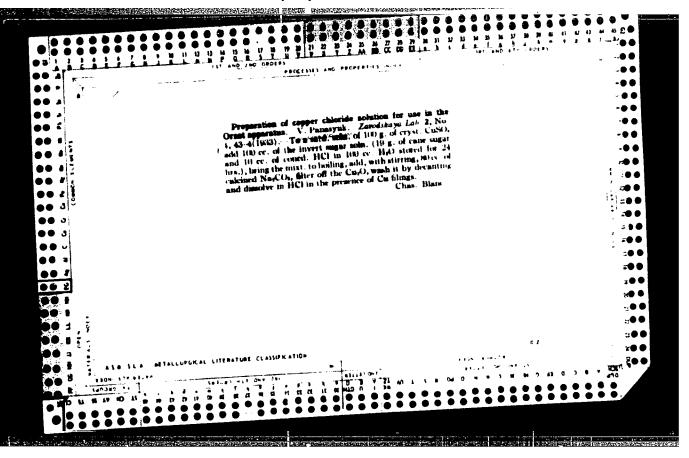


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Redesigning of the automatic control systems of high-pressure
PVSS-200 and FVSS-350 heaters. Elek. sta. 31 no.9:75-76 3 '66.

(Boilers)

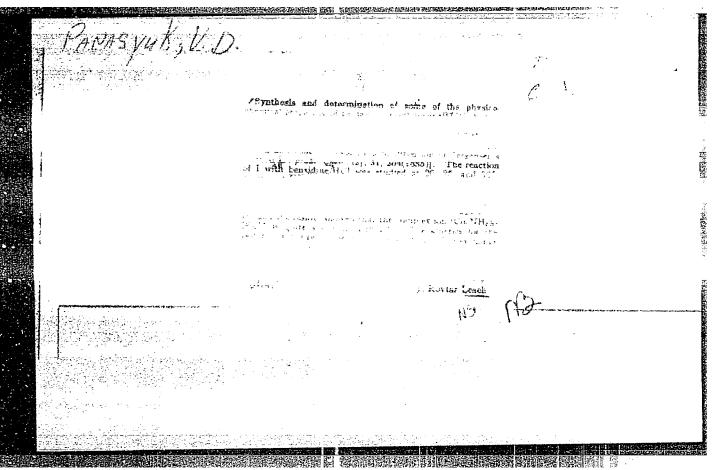
(Boilers)



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PANASYUK, V. D. Cand Chem Sci -- (diss) "Study of reactions of the isotopic exchange of sulfate ions in aqueous solutions of sulfatoammoniates and sulfatoaquaammoniates of cobalt." Kiev, 1957. 16 pp (Kiev State Univ im T. G. Shevchenko), 100 copies (KL, 4-58, 81)

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Studying certain physicochemical properties of aqueous solutions of sulfatohydrotetramminecobaltibisulfate. Zhur.neorg.khim. 2 no.7:1497-1504 Jl \*57. (MIRA 10:11)

Kiyevskiy gosudarstvennyy universitet im. T.G.Shevchenko,
 Kafedra neorganicheskoy khimii.
 (Cobalt sulfates)

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20-1-34/64 AUTHOR FIALKOV, Ya.A., PANASYUK, V.D. The Sulphate- Ion Exchange in Aqueous Solutions of Acid -Ammonia Compounds TIPLE of Trivalent Cobalt. (Obmen sulfat-ionov v vodnykh rastvorakh atsidoammiakatov trekhvalentnogo kobalta - Russian) Doklady Akademii Nauk SSSR, 1957, Vol 114, Nr 1, pp 124-127(U.S.S.R.) PER IODICAL The investigation of the kinetics of the isotope exchange facilitated re-**ABSTPACT** search work concerning properties, structure, and complex composition. Considerable interest was aroused in this respect by the systematical investigations carried out by A.A.Grinbergs and his collaborators. The present paper deals mainly with the results obtained by the authors, viz.the isotope exchange ions  $-50^{2}$ . 1.) The exchange of ions SO4 in aqueous solutions of sulphato-pentaminecobalt- bisulphate. On the occasion of the investigation of the kinetics of the isotope exchange of ions SO4 5 3,5 was used (as sodium sulphate). 2.) The exchange of the ions SO in aqueous solutions of sulphate-aqua-tetramine-cobalti-bisulphate. Here the dependence of the velocity of the isotope exchange of the ions SO4 on the time, temperature, and the concentration of complex and sulphate ions in the solution was determined. The results obtained by the experiment give rise to the assumption that the first stage of the aforementioned isotope exchange of the ions SO4- in the above

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The Sulphate- Ion Exchange in Aqueous Solutions of Acid -Ammonia 20-1-34/64 Compounds of Trivalent Cobalt.

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